# Terrel Verneuil
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## EDUCATION

***Gettysburg College***, Gettysburg, PA          Aug 2020 - May 2024
*B.S. Computer Science*

## SKILLS

**Languages:** *SQL, Java, Python, HTML, JavaScript, React*

## PROJECTS

**Environmental Science Project**, *JavaScript, HTML, React.js*
*September 2023 - December 2024*
- Worked for Professor Natasha Gownaris in the pursuit of an innovative solution to streamline data collection and management. This solution will not only benefit her research team but also contribute significantly to the success of the PMI project. By collaborating closely with the USFWS, Professor Gownaris exemplifies a commitment to environmental conservation and scientific advancement in the Gulf of Maine's ecosystem.

**Skills**: Scrum, Project Management, Project Planning, Time Management, JavaScript, HTML, React.js

**Localization Robotics Project**, *Python*
*January 2024 - May 2024*
- Utilized the Anki Cozmo robotics platform to simulate the Kidnapped Robot Problem using Monte Carlo Localization. The robot used its rotation and location data to familiarize itself with its environment and determine its location after being "kidnapped."
- [Access Project Here](#)

**Skills**: Python, Localization Engineering, Robotics, Scrum

**Mountain Car Problem (Reinforcement Learning)**, *Python, Java*
*February 2024 - March 2024*
- The Mountain Car problem is a classic reinforcement learning challenge where an underpowered car must reach the top of a steep hill. The vehicle uses potential energy from an opposing hill to gain momentum and reach the goal, exemplifying decision-making under uncertainty and learning through environmental interaction.

**Skills**: Machine Learning, Reinforcement Learning, Python, Java

**NYPD Weekly Crime Mapping**, *Python*
*June 2024 - July 2024*
- Developed an interactive tool for visualizing crime data in New York City using Python for data acquisition and GeoJSON for mapping. The tool helps in analyzing and understanding crime patterns. Features include automatic data download, data cleaning, and interactive mapping with color-coded markers and clustering for better visualization. (*could expand to an application in future)

**Skills**: Python, Automation, Web Scraping

## Certifications

**Certification:** AWS Certified Cloud Practitioner

## RELEVANT WORK EXPERIENCE

**Associate Software Engineer**, *Moody's*
*August 2024 - Present (8 months)*
New York, New York, United States | Hybrid
Worked on various software engineering projects, leveraging a variety of technologies, and contributing to innovative solutions for Moody's.

**Software Engineering Intern**, *Moody's Analytics*
*May 2023 - August 2023 (4 months)*
New York, New York, United States | Hybrid
Contributed to engineering efforts using AWS Lambda, Amazon S3, and other tools to develop and optimize software solutions.
**Skills**: AWS Lambda, AWS Glue, Amazon S3, SQL, Python, Aginity

**Intern**, *Moody's Analytics*

*June 2022 - August 2022 (3 months)*

Worked on the Know Your Customer (KYC) project, as well as supporting the Central Product Group, Sales, Ratings, and Research.

**Intern**, *Moody's Corporation*

*June 2021 - July 2021 (2 months)*

United States

Collaborated with a team to research Moody's and its competitive landscape, conducting a SWOT analysis based on our findings.

**Teachers Aide**, *NYC Men Teach*

*October 2019 - March 2020 (6 months)*

Greater New York City Area

Assisted in educational initiatives, supporting teachers and helping facilitate classroom activities.